

Figure 1A

1	agagagcagctcccttcccctcggcgaggaggaaggaagaagaaagccagagagag	
61	agagatcatcgcagcttctcctccgaccatttgactgcgactgtgattacaacacaccgt	
121	tgatcctacgaaaaagaggtaatggatactggcggcaattcgctggcgtccggacctgat	
	MDTGGNSLASGPD	13
	ggtgtgaagaggaaagtttgttatttctatgaccctgaggtcggcaattactactatggc G V K R K V C Y F Y D P E V G N Y Y Y G	33
241	caaggtcatcccatgaagccccatcgcatccgcatgacccatgccctcctcgctcactac OGHPMKPHRIRMTHALLAHY	53
301	ggtctccttcagcatatgcaggttctcaagcccttccctgcccgcgaacgtgatctctgc G L L Q H M Q V L K P F P A R E R D L C	73
361	cgcttccacgccgacgactatgtctcttttctccgcagcattacccctgaaacccagcaa R F H A D D Y V S F L R S I T P E T Q Q	93
421	gatcagattcgccaacttaagcgcttcaatgttggtgaagactgtcccgtctttgacggc DQIRQLKRFNVGEDCPVFDG	113
481	ctttattccttttgccagacctatgctggaggatctgttggtggctctgtcaagcttaac L Y S F C Q T Y A G G S V G G S V K L N	133
541	cacggcctctgcgatattgccatcaactgggctggtgtctccatcacgctaagaagtgc	153
601	gaggcctctggcttctgttacgtcaatgatatcgtcttagctatcctagagctccttaag E A S G F C Y V N D I V L A I L E L L K	173
661	cagcatgagcgtgttctttatgtcgatattgatatccaccacggggatggagtggaggag OHERVLYVDIDIHHGDGVEE	193
721	gcattttatgctactgacagggttatgactgtctcgtttcataaatttggtgattacttt AFYATDRVMTVSFHKFGDYF	213
781	cccggtacaggtcacattcaggatataggttatggtagcggaaagtactattctctcaat p G T G H I Q D I G Y G S G K Y Y S L N	233
841	gtaccactggatgatggatgatgatgatgatgatcatcatctgttattcaagcccatcatg	253
901	gggaaagttatggaaattttccgaccaggggctgtggtattgcaatgtggtgctgactcc G K V M E I F R P G A V V L Q C G A D S	273
961	ctatctggggatcggttaggttgcttcaatctttcaatcaa	293
1021	aaatttatgagatcgttcaatgttcccctactgctcttgggtggtggttggt	313
1081	cgcaatgttgcccgttgctggtgctacgagactggagttgcacttggagttgaagttgaa R N V A R C W C Y E T G V A L G V E V E	333
1141	gacaagatgccggagcatgaatattatgaatactttggtccagactatacacttcacgtt D K M P E H E Y Y E Y F G P D Y T L H V	353
1201	gctccaagtaacatggaaaataagaattctcgtcagatgcttgaagagattcgcaatgac A P S N M E N K N S R Q M L E E I R N D	373
1261	cttctccacaatctctctaagcttcagcatgctccaagtgtaccatttcaggaaagacca L L H N L S K L Q H A P S V P F Q E R P	393
1321	cctgatacagagactcccgaggttgatgaagaccaagaagatggggataaaagatgggat	413
1381	ccggattcagacatggatgttgatgatgaccgtaaacctataccaagcagagtaaaaaga PDSDMDVDDDRKPIPSRVKR	433
1441	gaagetgttgaaccagatacaaaggacaaggatggactgaaaggaattatggagegtgga E A V E P D T K D K D G L K G I M E R G	453
1501	aaaggttgtgaggtggatgagagtggaagcactaaggttacaggagtaaaccca KGCEVEVDESGSTKVTGVNP	473
	gtgggagtggaggaagcaagtgtgaaaatggaaggaagga	493
1621	gagcaggcgtttcctcctaaaacataagactcggagcttctaatttcttgctactttttc E Q A F P P K T *	502 501
1681	tgtctatcaaatgttgctagttaagtttctggagttgttgttgttgttaagcactcctctg	
1741	ttttagaggattgagcacggatatgtatttattcgttgcatgtctgaatgatgatatgat atgacaa	



Figure 3

AtRPD3A AtRPD3B ZmRPD3 RPD3	MDTGG NSLAS' GPDG VKRKVCYFYD PEVGNYYYGO GHPMKPHRIF MEADESTISLPS-GPDG PKRRVSYFYE FTIGDYYYGO GHPMKPHRIF MDPSSAGSGG NSLPSVGPDG ÇKRRVCYFYD PDVGNYYYGC GHPMKPHRIF MVYEATPFD FITVKPS DKRRVAYFYD ADVGNYAYGA GHPMKPHRIF	45-44 47 50 46
AtRPD3A AtRPD3B ZmRPD3 RPD3	MAHSLIMNYG LYKKMEIYRA KPATKQEMCQ FHTDEYIDFI SRVTPDILEM	95 (14) 97 100 96
AtRPD3A AtRPD3B CmRPD3 RPD3	PSAARNDRRF NVGEDCEVFD GLFDECRASA GGSIGAAVKL RQDADIAI. OIRLDKRF NVGEECEVLD GLYSECOTYA GASVGGAVIF NHCH-DIAI. FKEESVKF NVGDDCEVFD GLYEYTSIEG GGSMEGAARI NRGKEDVAV:	143-142 147 148-147 144
AtrPD3A AtrPD3B ZmRPD3 RPD3	MGGGLHHAKE SEASGFCYVN DIVLGILELL FMFRRVLYIL IDVHHGDGVE SEASGFCYVN DIVLGILELL KHHORVLYVL IDIHHGDGVE YAGGLHHAKE SEASGFCYLN DIVLGIELL RYHPRVLYIL IDVHHGDGVE	193 -192 197 198-197 194
AtrpD3A AtrpD3B ZmRPD3 RPD3	EAFYTTDRVM TVSFHKFGDF FPGTGHIRDV GAEKGKYYAL NVPLNDGMDL EAFYTTDRVM TVSFHKFGDY FPGTGDIRDI GHSKGKYYSL NVPLDDGIDL	243-242 243-247 248-247
AtRPD3A AtRPD3B ZmRPD3 RPD3	ESFRSLEREL IQKVMEVYQF EAVVLQCGAD SLSGDRLGCF NLSVKGHAD BSYOSLFKPI MGKVMEVFRP GAVVLQCGAD SLSGDRLGCF NLSIKGHAE ATYRSVFEPV IKKIMEWYOF SAVVLQCGGD SLSGDRLGCF NLSMEGHAN	293 292 297 298-297 294
AtrPD3A AtrPD3B EmrPD3 RPD3	LRELRSYNVP LMVLGGEGYT IRNVARCWCY ETAVAVGVEF DNKLPYNEYF VRYMRSFNVF LLLLGGGGYT IRNVARCWCY ETGVALGOEF EDKMEVNEY	342 342 347 348 347 344
AtrpD3A AtrpD3B EmrPD3 RPD3	EYFGPDYTLI VDPSNMENKI TPKDMERIRI TLLHNLSGLI HAPSVOFOH: EYFGPDYTLH VAPSNMENKI TRJOLDDIPSKLSKLR HAPSVHFOEP EYYGPDYKLS VRPSNMFJV TPEYLDKVMT NISANLENTK YAPSVOLNHT	393 392 397 294 393 394
ALRPD3A ALRPD3B ZmRPD3 RPD3	PPVNRVLD	435 434 421 444 443 408-409
AERPD3A AERPD3B ZmRPD3 RPD3	TATYESDSDE DDEPLHGY SE	413
AtRPD3A AtRPD3B ZmRPD3 RPD3	DNPERDVNPESS	502-50 471 514-5 3 422-433



Figure 4

AcHD2A AtHD2B ImHD2	MEFWGIEVKS GEPVTVTPEE GILIHVSQAS LGECKHKKGE FVPLHVKVCN MEFWGVAVTE KNATKVTPEE DSLVHISQAS L-DCTVKSGE SVVLSVTVCS MEFWGLEVKE GSTVACEPGY GEVLHISQAA LGES KKSD NALMYVFISD	4.9
AtHDCA AtHD2B ZmHD2	ONLVLGTLST ENIPOLECOL VPDKEFELSH TWGKGSVYFV GYKTPNIEPQ AKLVIGTLSO DKFPOISFDL VFDKEFELSH SGTKANVHFI GYKSPNIEQD OKLAIGTLSV DKNPHIOFDL IFDKEFELSH TSKTTSVFFT GYFVEOPFEE	99
AtHD2A AtHD2B 2mHD2	GYSEEEEBE- E <mark>BEVPA</mark> GNAAKAVA <mark>KPK AKPAEVKP</mark> AU DetssDebev sBa <mark>vpap</mark> apt a <mark>v</mark> ta <mark>ng</mark> naga avv <mark>ka</mark> ét <mark>kpk akpaevkpa</mark> e CemdlDsBee deelnve vvke <mark>ngka</mark> de kkéasgebav aapskssads	
AtHD2A AtHD2B 2mHD2	DDEEDE SIS-E	162 197 195
AtHDOA AtHDOB ZmHD2	ETEKKPAS -SKKRANETT PKAPVSAKKA KVAVTE OKTOB K ETEKKPEP INKKRPNESV SKTPVSGKKA EPAAAPASTP OKTEK ETET-KKPEV SKAPINGSV XI TOLSDKKA KVATPES X XX OKTOS	202 240 238
AtHD3A AtHD3B SmHD2 A	-KGGKA COSC-KKTFN KKGG-HTAT PHPAK KGGKSPVNAN DSPKSGGOSE GENNNKKPFN -KGAAVHVAT PHPAKGKTIV NNDKSVKSPK SAPKSGGSTP CKPCSK-SFI	229 283 28 7 XX6
AtHD2A AtHD2B ZmHD2	SCNALE- <mark>SHN KAF</mark> HAAAK SCKOFGGSNI KCSNEGKGKG RA SET <mark>AL</mark> QA- H S R <mark>AZ</mark> MGASESQ VQ	245 305 208 307